

STUDY MODULE DESCRIPTION FORM		
Name of the module/subject Pre-diploma Training		Code 1010101161010110303
Field of study Civil Engineering First-cycle Studies	Profile of study (general academic, practical) general academic	Year /Semester 3 / 6
Elective path/specialty -	Subject offered in: Polish	Course (compulsory, elective) obligatory
Cycle of study: First-cycle studies	Form of study (full-time, part-time) full-time	
No. of hours Lecture: - Classes: 160 Laboratory: - Project/seminars: -		No. of credits 3
Status of the course in the study program (Basic, major, other) other		(university-wide, from another field) university-wide
Education areas and fields of science and art technical sciences Technical sciences		ECTS distribution (number and %) 3 100% 3 100%
Responsible for subject / lecturer: dr inż. Tomasz Wiatr email: tomasz.wiatr@put.poznan.pl tel. +48 61 665-2464 Wydział Budownictwa i Inżynierii Środowiska ul. Piotrowo 5, 60-965 Poznań		
Prerequisites in terms of knowledge, skills and social competencies:		
1	Knowledge	Knowledge from area of construction on the level of 3rd year of study matched to character of selected pre-diploma practice (profile of interests and diploma) and future speciality of civil engineer profession relevant to type of construction facilities.
2	Skills	Ability to link of knowledge acquired on University with practice of this knowledge application, incl. critical outlook for quality of design documentation and production processes on construction site in context of continuous improvement of knowledge.
3	Social competencies	Awareness of civil engineer role in designing of facilities and managing of construction works with the principles of rules of professional ethics and and respect for other participants of work process and environment (engineer, as a profession of public confidence).
Assumptions and objectives of the course: Basic purpose is recognition of civil engineer work specifics on the area of independent technical functions, i.e. construction designer as well construction manager. Additional purpose is working out of critical outlook on field of own knowledge and application practice developing. Practice help in specifying of own professional interests and future path of self-improvement.		
Study outcomes and reference to the educational results for a field of study		
Knowledge: 1. Knowledge of technical conditions, which should be reply construction facilities (types of facilities adequate to future speciality of profession). - [K_W06] 2. Awareness of key safety requirements in construction and aesthetics of construction work product (quality of construction facility). - [K_W15] 3. Knowledge of environmental impacts of facility on surround and environments on construction facility, in execution phase too. - [K_W17]		
Skills: 1. Work with design documentation (planning) and construction process (documenting) within a given specialty/specialization (professional interests). - [K_U14] 2. Planning in complying with safety rules, including designing and execution of construction works (elimination of potential threats). - [K_U16] 3. Organising work in accordance with the principles of technology, the type of work and the applicable law, including construction. - [K_U21]		
Social competencies:		

1. Awareness of civil engineer responsibility in designing and execution. - [K_K05]
2. Ability to formulate an opinion on the processes in the construction industry in the context of his own knowledge. - [K_K07]
3. Adherence to professional ethics of civil engineer and worthy representation of profession. - [K_K11]

Assessment methods of study outcomes

The basis of assessment is delivered diary of practice signed by authorized representative of the organization to practice of allowing (possibly also authorized to perform technical functions within meaning of the law). The practice is recognized without note. Entry to index performs practice guardian from University.

Course description

Practice takes place in execution enterprises (on site) or in design offices, as well in series of supervision and maintenance or research institutions, such as universities, however, because of importance that has the design knowledge of execution preferred is practice on site. In the case of practice in the design office, it is recommended to combine it with the construction site. Other types of practice is recommended to agree with practice guardian from University.

The practice is carried out taking into account the specialization of the civil engineering profession (building, bridge, road and railway construction) by the fact of taking into account the type of construction (buildings and structures above ground; bridges and underground structures; roads, streets, airports; railroads, nodes and stations).

Basic bibliography:

1. Gawrysiak U., Budownictwo. Bezpiecznie od startu. Państwowa Inspekcja Pracy, Warszawa 2009.
2. Rozporządzenia wykonawcze prawa budowlanego o warunkach technicznych, jakim powinny odpowiadać obiekty budowlane i ich usytuowanie (rodzaje obiektów zależnie od przyszłej specjalności zawodu).
3. Rozporządzenie Ministra Infrastruktury z dnia 6 lutego 2003 r. w sprawie bezpieczeństwa i higieny pracy podczas wykonywania robót budowlanych. Dz. U. 2003 nr 47 poz. 401

Additional bibliography:

1. Gilewicz A., Gilewicz M., Poradnik BHP w projektowaniu, wykonawstwie i nadzorze robót budowlano-montażowych. Alfa-Wero, Warszawa 1997.
2. Wieczorek Z., Budownictwo. Wymagania bezpieczeństwa pracy. Państwowa Inspekcja Pracy, Warszawa 2011.
3. Strojna E., Piotrowicz J., Żywiec-Dąbrowska E., Klasyfikacja zawodów i specjalności na potrzeby rynku pracy. Ministerstwo Pracy i Polityki Społecznej, Warszawa 2010.

Result of average student's workload

Activity	Time (working hours)
1. Reconciliation of detailed scope of practice (planning) and workspecific health and safety training	8
2. Knowing organizational structure of company (depending on the type of practice)	8
3. Knowing design/project documentation and other data (depending on the type of practice)	16
4. Assisting other employees of the company (designers, executives, supervisors, teams)	120
5. Confirmation of practice documentation in diary of practice and their correct finishing	8

Student's workload

Source of workload	hours	ECTS
Total workload	160	3
Contact hours	1	1
Practical activities	160	3